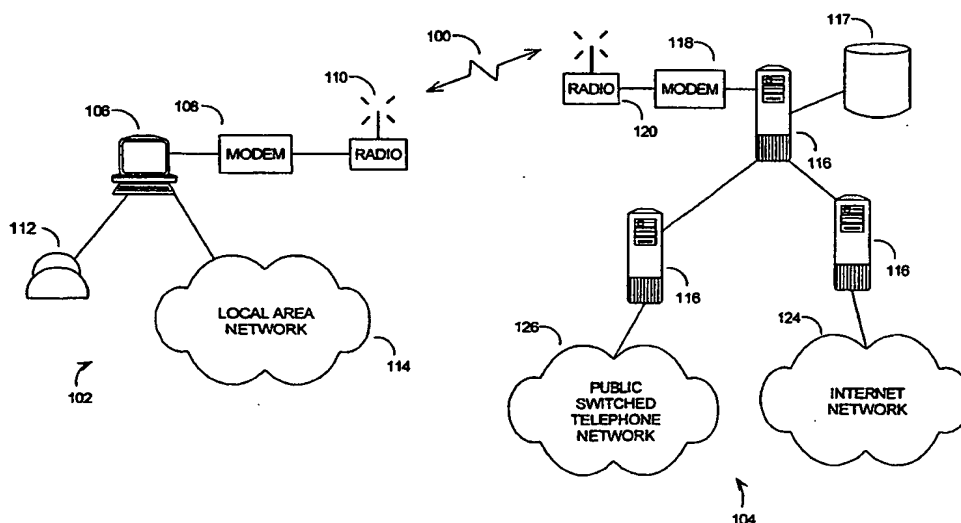




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(21) International Application Number: PCT/CA99/00874 (22) International Filing Date: 24 September 1999 (24.09.99) (30) Priority Data: 60/101,857                      25 September 1998 (25.09.98)    US 2,264,407                      4 March 1999 (04.03.99)        CA (71) Applicant (for all designated States except US): WIRELESS SYSTEM TECHNOLOGIES, INC. [CA/CA]; Suite 601, 205 Richmond Street West, Toronto, Ontario M5V 1V3 (CA). (72) Inventors; and (75) Inventors/Applicants (for US only): SNELGROVE, William, Martin [CA/CA]; Apartment #603, 90 Sherbourne Street, Toronto, Ontario M5A 2R1 (CA). STUMM, Michael [CA/CA]; 3 Belvale Avenue, Toronto, Ontario M8X 2A6 (CA). DE SIMONE, Mauricio [CA/CA]; Apartment 702, 10 Queen's Quay West, Toronto, Ontario M5J 2R9 (CA). (74) Agents: O'NEILL, T., Gary et al.; Gowling, Strathy & Henderson, Suite 2600, 160 Elgin Street, Ottawa, Ontario K1P 1C3 (CA).		(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).  <b>Published</b> <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i>	

## (54) Title: OPERATING SYSTEM FOR TELECOMMUNICATIONS



## (57) Abstract

The present invention relates generally to telecommunications, and more specifically, to an improved operating system and apparatus for telecommunications networks. Currently, the majority of telecomm services are provided over the Public Switched Telephone Network and Internet. Existing telephony systems suffer from a number of problems including system complexity, limited access and implementation of services on fixed hardware, which results in long time to bring new products to market. Internet applications can not guarantee quality of service in the transmission. These systems are therefore inflexible and inefficient which limits their ability to carry new services. The invention provides an operating system for use over varied telecommunications networks which is distributed in real-time. As well, methods of implementing synchronized execution, fault tolerance and loading management over this network, are also described. The application of this operating system to existing networks allows new services to be provided.